Highway Number (ON) 5D: 470A

Colorado Department of Transportation Structure Inspection and Inventory Report (English Units)

Mile Post (ON)11: 12.446 mi

| dge Key: F-16-M | 1C | Inspection Date: 3/6 | 6/2012 | Sufficiency Rating: 98.6 | Not Eligib |
|------------------------|---------------|---------------------------|-----------------|---------------------------|-------------|
| Rgn/Sectn 2E/2M: | 68 | Hist Signif 37: | 5 | UW Inspection Date 93B | |
| rans Region 2T | 02 | Posting status 41: | A | SI Date 93C: | |
| County Code 3: | 059 | Service on/un 42A/B: | 6 1 | Bridge Cost 94: | \$ 0 |
| EFFERSON | | Main Mat/Desgn 43A/B: | 6 2 | Roadway Cost 95: | \$ 0 |
| Place Code 4: | 00000 | Appr Mat/Desgn 44A/B: | 0 0 | Total Cost 96: | \$ 0 |
| on-city | , | Main Spans Unit 45: | 2 | Year of Cost Estimate 97: | 7 - |
| Rte.(On/Under)5A: | 1 | Approach Spans 46: | 0 | Brdr Brdg Code/% 98A/B: | |
| Signing Prefix 5B: | 3 | Horiz Clr 47: | 38.0 ft | Border Bridge Number 99: | |
| evel of Service 5C: | 1 | Max Span 48: | 103.0 ft | Defense Highway 100: | 0 |
| Directional Suffix 5E: | 0 | Str Length 49: | 200.0 ft | Parallel Structure 101: | R |
| eature Intersected 6: | 0 | Curb Wdth L/R 50A/B: | 0.0 ft 0.0 ft | Direction of Traffic 102: | 1 |
| (IPLING PARKWAY | | Width Curb to Curb 51 | 38.0 ft | Temporary Structure 103 | j. |
| | | | 41.5 ft | | <u> </u> |
| Facility Carried 7: | | Width Out to Out 52: | | Highway System 104: | 0 |
| | | Deck Area: | 8,300. sq. ft | Fed Lands Hiway 105: | 0000 |
| llias Str No.8A: | | Min Clr Ovr Brdg 53: | 99.99 | Year Reconstructed 106 | 0000 |
| | | Min Undrolr Ref 54A: | H | Deck Type 107: |]1 |
| Prll Str No. 8P | | Min Undrolr 54B: | 16.0 ft | Wearing Surface 108A | 6 |
| -16-MD | | Min Lat Clrnce Ref R 55A: | Н | Membrane 108B: | 2 |
| ocation 9: | 328.051174090 | Min Lat Undrolr R 55B: | 11.0 ft | Deck Protection 108C: | 1 |
| 2.4 MIS. OF I 70 | | Min Lat Undrclr L 56: | 6.000656155 | Truck ADT 109: | 6 % |
| Max Clr 10: | 99.99 | Deck 58: | 7 | Trk Net 110: | 1 |
| BaseHiway Net12: | 1 | Super 59: | 8 | Pier Protection 111: | # |
| rsinvRout 13A | 000000470A | Sub 60: | 8 | NBIS Length 112: | Υ |
| rssubRout No13B: | 00 | Channel/Protection 61: | N | Scour Critical 113: | N |
| atitude 16: | 39d 33' 36" | Culvert 62: | N | Scour Watch 113M: | |
| ongitude 17: | 105d 06' 38" | Oprtng Rtg Method 63: | 1 LF Load Facto | Future ADT 114: | 39,397 |
| Range18A: | 69 W | Operating Rating 64: | 71.0 | Year of Future ADT 115 | 2027 |
| ownship18B: | 69 | Inv Rtng Method 65: | 1 | CDOT Str Type 120A: | CPGC |
| Section18C: | 3 | Inventory Rating 66: | 35.1 | CDOT Constr Type 120B | 31 |
| Detour Length 19: | 0.6 mi | Asph/Fill Thick 66T: | 003 "in" | Inspection Indic 122A: | |
| oll Facility 20: | 3 | Str. Evaluation 67: | 7 | Inspection Trip 122AA | |
| Custodian 21: | 1 | Deck Geometry 68: | 6 | Scheduling Status 122B | |
| Owner 22: | 1 | Undrclr Vert/Hor 69: | 7 | Maintenance Patrol 123 | 17 |
| unctional Class 26: | 12 | Posting 70: | 5 | Expansion Dev/Type124 | 0 |
| ear Built 27: | 1986 | Waterway Adequacy 7 | N | Brdg Rail Type/Mod 125A/B | R 0 |
| anes on 28A: | 2 | Approach Alignment 72: | 8 | Posting Trucks 129A/B/C | 0 0 0 |
| anes Under 28B: | 4 | Type of Work 75A: | | Str Rating Date 130: | 2/3/1997 |
| ADT 29: | 25,750 | Work Done By 75B: | | Special Equip 133: | |
| | | | 0.0 ft | | -1 |
| ear of ADT 30: | 2007 | Length of Improvment 76: | | Vert Clr N/E 134A/B/C: | X 99.99 0.0 |
| Design Load 31: | 6 | Insp Team Indicator 90B: | GREEN TEAM | Vert Clr S/W 135A/B/C | X 99.99 0.0 |
| pr Rdwy Width 32: | 38.0 ft | Inspector Name 90C: | BUTKOVICHJ | Vertical CIr Date: | 1/20/2010 |
| Median 33: | 1 | Frequency 91: | 24 months | Weight Limit Color: 139 | 0 |
| Skew 34: | 0.00 ° | FC Frequency 92A: | -1 | Str Billing Type: | U |
| Structure Flared 35: | 0 | UW Frequency 92B: | -1 | Userkey 1 - System: | ONSYS |
| | 1 1 1 1 | SI Frequency 92C: | -1 | Userkey 7-Update Indic | |

Inspector Name: BUTKOVICHJ

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Element Inspection Report

| Elm/En | Description | Units | Total Qty | % in 1 | CS 1 | % in 2 | CS 2 | % in 3 | CS 3 | % in 4 | CS 4 | % in 5 | CS 5 |
|--------|----------------------|-------|-----------|--------|-------|--------|------|--------|------|--------|------|--------|------|
| 26/4 | Conc Deck/Coatd Bars | (SF) | 8,300 | 100 % | 8,300 | 0 % | 0 | 0 % | 0 | 0 % | 0 | 0 % | 0 |
| 109/4 | P/S Conc Open Girder | (LF) | 1,188 | 100 % | 1,188 | 0 % | 0 | 0 % | 0 | 0 % | 0 | 0 % | 0 |
| 210/4 | R/Conc Pier Wall | (LF) | 21 | 100 % | 21 | 0 % | 0 | 0 % | 0 | 0 % | 0 | 0 % | 0 |
| 215/4 | R/Conc Abutment | (LF) | 83 | 100 % | 83 | 0 % | 0 | 0 % | 0 | 0 % | 0 | 0 % | 0 |
| 234/4 | R/Conc Cap | (LF) | 41 | 100 % | 41 | 0 % | 0 | 0 % | 0 | 0 % | 0 | 0 % | 0 |
| 306/1 | Asphaltic Plg Exp Jt | (LF) | 76 | 100 % | 76 | 0 % | 0 | 0 % | 0 | 0 % | 0 | 0 % | 0 |
| 308/4 | Constr Non Exp Jt | (LF) | 82 | 100 % | 82 | 0 % | 0 | 0 % | 0 | 0 % | 0 | 0 % | 0 |
| 321/4 | R/Conc Approach Slab | (EA) | 2 | 100 % | 2 | 0 % | 0 | 0 % | 0 | 0 % | 0 | 0 % | 0 |
| 325/4 | Slope Prot/Berms | (EA) | 2 | 100 % | 2 | 0 % | 0 | 0 % | 0 | 0 % | 0 | 0 % | 0 |
| 326/4 | Bridge Wingwalls | (EA) | 4 | 100 % | 4 | 0 % | 0 | 0 % | 0 | 0 % | 0 | 0 % | 0 |
| 331/4 | Conc Bridge Railing | (LF) | 400 | 100 % | 400 | 0 % | 0 | 0 % | 0 | 0 % | 0 | 0 % | 0 |
| 340/4 | Superstr Cnc Coating | (EA) | 1 | 100 % | 1 | 0 % | 0 | 0 % | 0 | 0 % | 0 | 0 % | 0 |
| 341/4 | Substr Conc Coating | (EA) | 1 | 100 % | 1 | 0 % | 0 | 0 % | 0 | 0 % | 0 | 0 % | 0 |
| 359/4 | Soffit Smart Flag | (EA) | 1 | 0 % | 0 | 100 % | 1 | 0 % | 0 | 0 % | 0 | 0 % | 0 |

| Elem/Env | Description | Element Notes |
|----------|----------------------|--|
| 26/4 | Conc Deck/Coatd Bars | 2 to 3 inches of asphalt. Looks OK. |
| 109/4 | P/S Conc Open Girder | Right side of Girders 1A, 1B, 1C, 1D, and 1E have short diag. cracks with efflor. at top flange/web junct. Short horiz. cracks with efflor. at top flange/web junct. at 1D, midspan, 2A right side near Pier 2 and 2B right side near midspan. |
| 210/4 | R/Conc Pier Wall | Looks good. |
| 215/4 | R/Conc Abutment | Both abutment backwalls have diag. cracks at haunches near top flanges of girders. Light diag. crack at Abut. 3 backwall, right and left side of Girder 2C, bottom flange. Small delam. at Abut. 1 backwall, Bay B - Girder B and Bay C - Girder C, and Abut. 3 backwall, Bay C - Girder C, bottom flange. Spots of efflor. at Abut. 1 seat in Bays A and B. |
| 234/4 | R/Conc Cap | Looks good. |
| 306/1 | Asphaltic Plg Exp Jt | Moderate cracking over plug joints which are located between approach slabs and the approach roadway. See 2012 PHOTO. |
| 308/4 | Constr Non Exp Jt | Asphalt covered. 1/4 inch crack entire width at Abut. 1. 1/2 inch crack entire width at Abut. 3 with 1 inch settling. Up to 1.25 inch crack in shoulder areas. |
| 321/4 | R/Conc Approach Slab | Asphalt covered. No problems. |
| 325/4 | Slope Prot/Berms | Abut. 1 slope pave has settled 2 inches and has light horiz. crack. Slope pave at left side of A3, near wing, has settled up to 7 inches and fill is being washed out, see 2010 PHOTOS. Slope pave at right side of A3, near wing, has settled up to 2 inches, see 2010 PHOTOS. Slope pave at breastwall looks good. Light horiz. crack near Abut. 3 breastwall. |
| 326/4 | Bridge Wingwalls | Hairline horiz. cracks on all. |

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Highway Number (ON) 5D: 470A

Colorado Department of Transportation Structure Inspection and Inventory Report (English Units)

Mile Post (ON)11: 12.446 mi

| Elem/Env Description | | Element Notes | | | | | |
|----------------------|----------------------|---|--|--|--|--|--|
| 331/4 | onc Bridge Railing | Several light vertical cracks. Finish peeling off, mostly on right side. Numerous scrape marks on both sides. | | | | | |
| 340/4 | Superstr Cnc Coating | On exteriors and bottom flange of exterior girders, bottom flanges of interior girders and bridge rail. Peeling off of bridge rail. | | | | | |
| 341/4 | Substr Conc Coating | Peeling off of slope paves. Wings, abutments and pier wall looks good. | | | | | |
| 359/4 | Soffit Smart Flag | Few light trans. cracks, some cracks with light efflor. Diag. cracks with light efflor. at corners of Abut. 1. The majority of cracking is near Pier 2. Couple of cracks in left overhang at pier. See SKETCH AND 2012 PHOTO. | | | | | |

Maintenance Activity Summary

| MMS Activity Description | Recommended Status | Target Year | Est Cost |
|--------------------------|--------------------|-------------|----------|
| 353.08 Br Dk Rpr | 3/6/2012 | 2014 | 400 |

Seal cracking in asphalt along plug joints located between approach slabs and approach roadways.

Bridge Notes

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Highway Number (ON) 5D: 470A _

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Mile Post (ON)11: 12.446 mi

Inspection Notes

| Time: 10:00 | Temperature: 61 Degrees | Weather: P/C To | eam leader: JWB | Inspector: J. Butkovich |
|-----------------|-------------------------|--------------------|-----------------|-------------------------|
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| | | | | |
| Scope: | | | | |
| | ement: Underwater: | Fracture Critical: | Other: | Type: Regular NBI |
| Inspector: | BUTKOVICHJ | Inspection Team | : | |
| -, | | ., | | |
| | | | | |
| | | | | |
| Inspection Date | : 03/06/2012 | | | |
| · | | Inspector | | |
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| | | Inspector | | |